PATENT COOPERATION TREATY

| From the INTERNATIONAL SEARCHING AUTHORITY | PCT |
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| To: GENSET Intellectual Property Department 24, rue Royale | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION |
| F-75008 Paris FRANCE | (PCT Rule 44.1) |
| · | Date of mailing (day/month/year) 27/12/2001 |
| Applicant's or agent's file reference | To Turning Action |
| 73.W01 | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. PCT/IB 00/01632 | International filing date (day/month/year) 20/10/2000 |
| Applicant | |
| GENSET et al. | |
| Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla When? The time limit for filing such amendments is norm international Search Report; however, for more of the whole with the search Report; however, for more of the search Report Rep | mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. |
| With regard to the protest against payment of (an) add | ditional fee(s) under Rule 40.2, the applicant is notified that: |
| applicant's request to forward the texts of both the | peen transmitted to the International Bureau together with the protest and the decision thereon to the designated Offices. Applicant will be notified as soon as a decision is made. |
| 4. Further action(s): The applicant is reminded of the following | ng: |
| Shortly after 18 months from the priority date, the international if the applicant wishes to avoid or postpone publication, a not priority claim, must reach the International Bureau as provide completion of the technical preparations for international put | al application will be published by the International Bureau. blice of withdrawal of the international application, or of the ded in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the blication. |
| |) months from the priority date (in some chiece even later). |
| Within 20 months from the priority date, the applicant must perfore all designated Offices which have not been elected in priority date or could not be elected because they are not be | in the demand of in a later election water to mention with |

Name and mailing address of the International Searching Authority

Authorized officer

Lucia Van Pinxteren

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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: Claims 1 to 15 replaced by amended claims 1 to 11.
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims): "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]: Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17, new claims 20 and 21 added.

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | | of Transmittal of International Search Report |
|--|---|---|
| 73.W01 | ACTION (Form PCT/ISA/2 | 220) as well as, where applicable, item 5 below. |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/IB 00/01632 | 20/10/2000 | 22/10/1999 |
| Applicant | | A |
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| GENSET et al. | | |
| This International Search Report has be according to Article 18. A copy is being t | en prepared by this International Searching Autransmitted to the International Bureau. | thority and is transmitted to the applicant |
| This International Search Report consist | s of a total of sheets. by a copy of each prior art document cited in thi | s report. |
| Basis of the report | | |
| a. With regard to the language, th language in which it was filed, u | e international search was carried out on the banless otherwise indicated under this item. | asis of the international application in the |
| the international search Authority (Rule 23.1(b)) | was carried out on the basis of a translation of | the international application furnished to this |
| b. With regard to any nucleotide a was carried out on the basis of | | international application, the international search \uptheta |
| l | tional application in written form. | |
| filed together with the in | ternational application in computer readable fo | rm. |
| furnished subsequently | to this Authority in written form. | |
| furnished subsequently | to this Authority in computer readble form. | |
| the statement that the sinternational application | subsequently furnished written sequence listing n as filed has been furnished. | does not go beyond the disclosure in the |
| the statement that the in furnished | nformation recorded in computer readable form | is identical to the written sequence listing has been |
| 2. Certain claims were fo | ound unsearchable (See Box I). | |
| 3. Unity of invention is I | acking (see Box II). | |
| 4. With regard to the title, | | |
| the text is approved as | submitted by the applicant. | |
| X the text has been estat | olished by this Authority to read as follows: | |
| METHODS OF GENETIC C | LUSTER ANALYSIS | |
| C. With second to the chestrons | | |
| 5. With regard to the abstract, | cubmitted by the applicant | |
| the text has been estal | submitted by the applicant. blished, according to Rule 38.2(b), by this Auth the date of mailing of this international search | ority as it appears in Box III. The applicant may, report, submit comments to this Authority. |
| | ublished with the abstract is Figure No. | 20 |
| as suggested by the a | | None of the figures. |
| | failed to suggest a figure. | |
| because this figure be | tter characterizes the invention. | |
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INTERNATIONAL SEARCH REPORT

International Application No PCT/IB 00/01632

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 GO6F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

| | | D-1 |
|------------|---|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| E | WO 01 20536 A (MITOKOR ;FAHY EOIN DAVID (US)) 22 March 2001 (2001-03-22) abstract; claim 1 | 1-36 |
| X | WO 99 09218 A (BERNO ANTHONY ;AFFYMETRIX INC (US)) 25 February 1999 (1999-02-25) claims 1,8,10,23; figures 5-7 | 1-36 |
| P,X | RALF-HERWIG ET AL: "Large-Scale Clustering of cDNA-Fingerprinting Data" GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 9, November 1999 (1999-11), pages 1093-1105, XP002176537 ISSN: 1088-9051 abstract page 1101, paragraph 2 - paragraph 3 | 1-36 |

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| Further documents are listed in the continuation of box C. | Patent family members are listed in annex. |
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family |
| Date of the actual completion of the international search | Date of mailing of the international search report |
| 17 December 2001 | 27/12/2001 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Filloy García, E |

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 00/01632

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| .(Continu | ation) DOCUMENTS CONSIDERED TO BE RELEVANT | | | | |
| ategory ° | Citation of document, with indication, where appropriate, of the relevant passages | F | Relevant to claim No. | | |
| Y | CHEN Y ET AL: "CLUSTERING ANALYSIS FOR GENE EXPRESSION DATA" PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, vol. 3602, January 1999 (1999-01), pages 422-428, XP001001103 abstract | | 1-36 | | |
| , | EISEN M B ET AL: "Cluster analysis and display of genome-wide expression patterns" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, December 1998 (1998-12), pages 14863-14868, XP002140966 ISSN: 0027-8424 page 14863, right-hand column, paragraph 4 page 14864, left-hand column, paragraph 4 | | 1-36 | | |
| A | ALON U ET AL: "BROAD PATTERNS OF GENE EXPRESSION REVEALED BY CLUSTERING ANALYSIS OF TUMOR AND NORMAL COLON TISSUES PROBED BY OLIGONUCLEOTIDE ARRAYS" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 96, 1999, pages 6745-6750, XP000900484 ISSN: 0027-8424 abstract | | 1-36 | | |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB 00/01632

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------------|--|--|
| W0 0120536 | Α | 22-03-2001 | AU WO | 7829300 A 0120536 A2 | 17-04-2001 22-03-2001 |
| W0 9909218 | A | 25-02-1999 | AU EP JP WO US US | 9198298 A 1019536 A1 2001514907 T 9909218 A1 6223127 B1 2001041965 A1 | 08-03-1999 19-07-2000 18-09-2001 25-02-1999 24-04-2001 15-11-2001 |